

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P238064

Luminaire Tested: **PRS615D010-S6M12-64SMDH-4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS615D010-S6M12-64SMDH-4000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1472.1 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.95 / 1.01
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

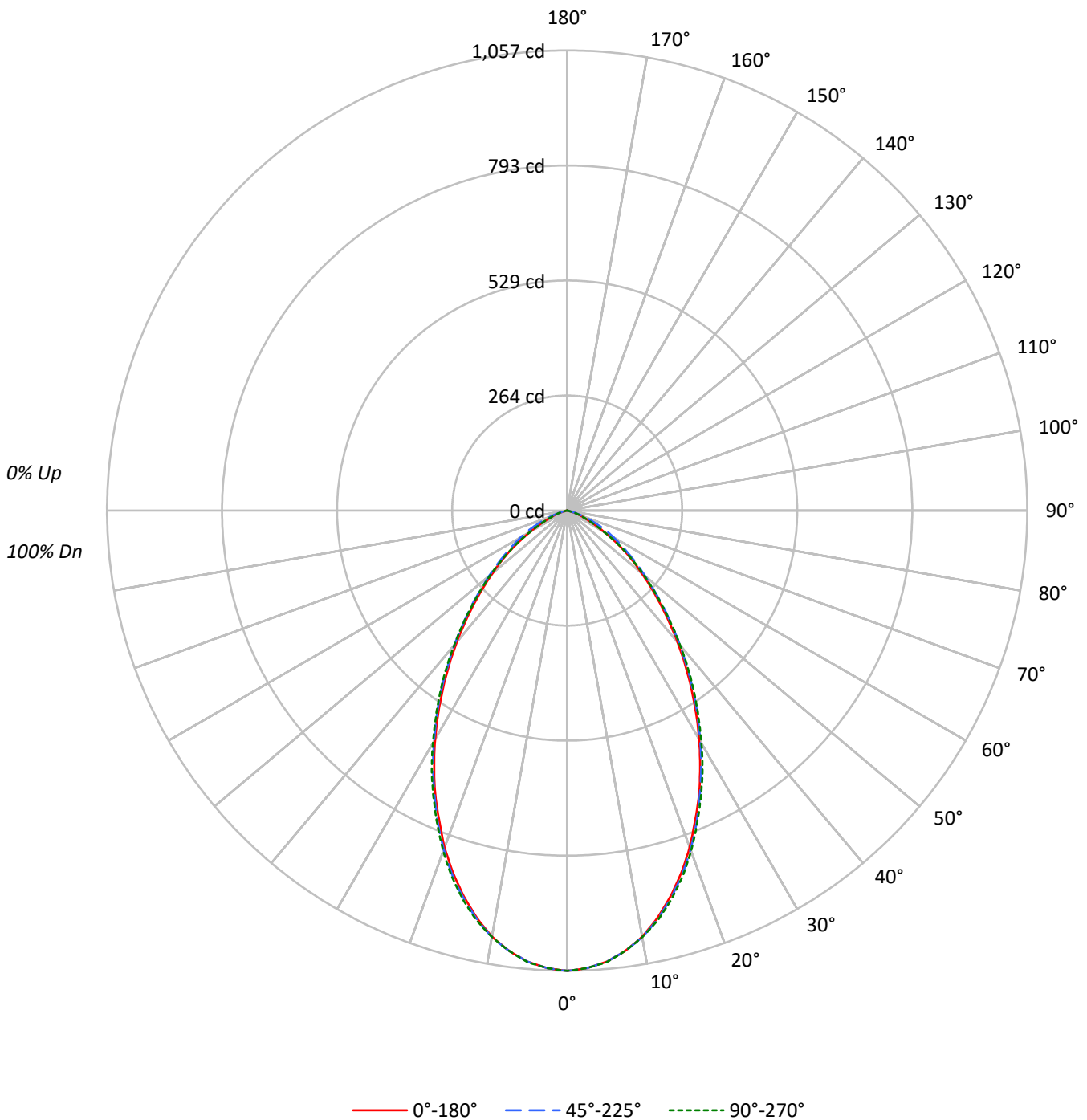
Input Watts (W): 12.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	112	108	105	103	109	106	103	101	102	100	98	98	97	95	95	93	92	90					90			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80					80			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72					72			
4	91	81	74	69	89	80	73	68	78	72	68	75	71	67	73	69	66	64					64			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	59	58					58			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52					52			
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48					48			
8	70	58	51	46	68	58	51	46	56	50	46	55	50	45	54	49	45	44					44			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	45	42	40					40			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37					37			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45523	45523	45523
5°	44953	44953	45009
10°	43449	43506	43506
15°	40875	41053	41231
20°	37714	37956	38140
25°	34072	34262	34514
30°	30133	30397	30660
35°	26081	26501	26706
40°	22162	22611	22684
45°	18370	19016	18772
50°	14890	15687	15332
55°	11823	12911	12018
60°	8430	10600	8430
65°	5532	8089	5664
70°	3663	4998	3827
75°	1763	2196	1763
80°	0	322	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.8	6.6
10°-20°	257.6	17.5
20°-30°	330.6	22.5
30°-40°	314.3	21.3
40°-50°	240.0	16.3
50°-60°	149.9	10.2
60°-70°	67.0	4.5
70°-80°	14.8	1.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	686.1	46.6
0°-40°	1000.4	68.0
0°-60°	1390.3	94.4
0°-90°	1472.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1472.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1040	1040	1040	1041	1041	98
15°	917	918	921	924	925	257
25°	717	718	721	724	726	328
35°	496	502	504	506	508	310
45°	302	308	312	314	308	234
55°	158	167	172	169	160	141
65°	54	62	79	64	56	57
75°	11	13	13	13	11	12
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.3	1057.3	1057.3	1057.3	1057.3
2.5°	1052.0	1052.0	1052.0	1052.0	1052.0
5°	1040.1	1040.1	1040.1	1041.4	1041.4
7.5°	1020.3	1020.3	1020.3	1021.6	1020.3
10°	993.8	993.8	995.1	995.1	995.1
12.5°	958.1	959.4	960.7	962.0	963.4
15°	917.0	918.4	921.0	923.7	925.0
17.5°	872.1	872.1	877.3	881.3	881.3
20°	823.1	824.4	828.4	829.7	832.4
22.5°	768.8	772.8	776.8	778.1	779.4
25°	717.2	718.5	721.2	723.8	726.5
27.5°	661.6	663.0	666.9	668.3	673.6
30°	606.1	608.7	611.4	614.0	616.7
32.5°	550.5	553.1	557.1	558.4	561.1
35°	496.2	501.5	504.2	505.5	508.1
37.5°	444.6	449.9	451.2	455.2	455.2
40°	394.3	399.6	402.3	404.9	403.6
42.5°	345.4	352.0	354.6	358.6	354.6
45°	301.7	308.3	312.3	313.6	308.3
47.5°	260.7	268.6	270.0	271.3	268.6
50°	222.3	230.3	234.2	235.5	228.9
52.5°	190.6	197.2	201.1	199.8	194.5
55°	157.5	166.7	172.0	169.4	160.1
57.5°	127.0	137.6	145.6	138.9	129.7
60°	97.9	109.8	123.1	112.5	97.9
62.5°	72.8	84.7	101.9	84.7	72.8
65°	54.3	62.2	79.4	63.5	55.6
67.5°	39.7	46.3	59.5	46.3	41.0
70°	29.1	34.4	39.7	34.4	30.4
72.5°	19.8	23.8	23.8	23.8	19.8
75°	10.6	13.2	13.2	13.2	10.6
77.5°	1.3	4.0	5.3	4.0	1.3
80°	0.0	0.0	1.3	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)